



Discovery Session Descriptions 2022-23 School Year

STEM Story Time

Grades UPK – 4

Young children are natural scientists – curious, inquisitive, and always ready to explore! STEM Story Time encourages a student’s scientific spirit through stories and hands-on sensory play designed to inspire investigation and discovery! Each grade level story and activity is different:

- STEM Story Time: **Trees** (Grade UPK-K)
- STEM Story Time: **Light & Sound** (Grade 1)
- STEM Story Time: **Solids & Liquids** (Grade 2)
- STEM Story Time: **Food & Nutrition** (Grade 3)
- STEM Story Time: **Human Impacts on the Environment** (Grade 4)

Predict & Prepare: Weather Response Team

Grades UPK – 1

This severe weather response simulation gives young students an opportunity to work together to predict and prepare for a severe weather event. Hands-on activities engage students in weather forecasting, assessing local climate conditions, and preparing themselves and their community for floods, snowstorms, and more.

Build a Bug, Jr.: Animals & Their Habitats

Grades UPK – 2

Discover the secrets of bug anatomy and how insects adapt to their habitats. Students learn about a variety of ecosystems and design a bug that can survive predators and the elements in different biomes!

Ready, Set, Roll: Exploring Forces

(Available in-museum only)

Grades UPK – 3

Explore the basic physical forces at work in everyday life, from friction and air resistance to gravity and momentum. Students will explore what makes a catapult launch, a ball accelerate down a ramp, and more!

Coding Basics

(Also available as “Coding Basics” Girl Scout Badge Workshop – Daisy, Brownie, or Junior)

Grades UPK - 4

Explore the basics of coding with an introduction to binary, algorithms, and more! Students will learn about famous computer science pioneers, play coding games, and explore exhibits in computer engineering at the MOST!

Kitchen Science

(Also available as “Home Scientist” Girl Scout Badge Workshop – Brownie)

Grades UPK – 4

Science doesn’t just happen in a laboratory, it happens everywhere – even in your own home! Explore chemical reactions, density, and more home-spun science fun in this hands-on workshop session.

Dino Zone Safari: Exploring Fossils

(Available in-museum only)

Grades UPK – 4

Students will learn what fossils can teach us, how fossil records demonstrate changes in landscape over time, and how adaptations supported animal survival. Students will play a “be the fossil” game, explore sample fossil records, and examine real and replica fossil samples. They will also complete a safari scavenger hunt focusing on adaptation in Dinosaur species.

Superhero Science: Exploring Materials

Grades UPK – 4

Students will explore materials and material properties, from the everyday to the unbelievable (but real!) cutting edge of materials science. Examine and compare material specimens and discover the secrets behind the accessories of your favorite superheroes!

Plant Parts & Indigenous Agriculture

Grades 2 – 6

Students will explore native agricultural techniques, the main external structures that are necessary for plant survival, and the internal structures of seeds. Students will complete a seed dissection, as well as assemble a 3D plant model puzzle.

Bio-rama: The Water Cycle & Aquatic Life

Grades 3 – 7

Dive into the wonderful world of water! Explore the water cycle, and the aquatic life and ecosystems that depend on them through hands-on activities and specimen analysis.

Inside the Geology Cave and Gem & Mineral Gallery

(Available in-museum only)

Grades 4 – 8

This lesson aims to expand upon student knowledge of rocks and landforms. Students will learn how Earth processes impact the formation of different kinds of rocks, and will be introduced to topography. A docent will highlight key exhibit features which align with these curriculum points, show & tell with several key fossil and mineral samples, and answer questions during some time for independent exhibit exploration.

Explosion Explorers: Chemistry

Grades 5 – 9

Engage your students’ curiosity about chemicals and chemical reactions with a review of basic experiment safety and procedures, all while exploring popular chemical reactions in this exciting lab session!

Science Fair 101: Variables and Experiment Design

Grades 4 – 12

Students will review the Scientific Method & Engineering Design Process, and explore famous experiments as well as tips & tricks for designing their own. The MOST hosts the annual CNY Science & Engineering Fair each Spring, open to students in grades 4-12. Registration is free.

Making Waves: HAM Radio Lab

(Available in-museum only)

Grades 8 – 12

COMING SOON IN 2023!